

Acquisition of unique research centre tantalizingly out of reach

The University of Alberta could acquire a world-class research centre that would facilitate teaching and research in a wide range of departments, capitalize on the University's leading reputation in protected areas management, raise the University's profile internationally, and provide model long-term environmental research.

The site is fully developed and ready to use, it has been offered as a gift (a 99-year lease for \$1), and it would be self-supporting within five years. But the University cannot accept it unless someone finds money for its first few years' operation.

The proposed gift—the former Palisades Training Centre—is a

multimillion-dollar, 13-building facility in Jasper National Park, owned by the Canadian Parks Service.

When budget cuts forced the Parks Service to close the facility in 1985, U of A professors from a number of departments proposed turning the site into a multidisciplinary research station.

Supporting that proposal, the Parks Service offered the University the site in 1986. Decision deadlines have been extended several times in hopes that the University will find the necessary funding. The latest deadline passed on 30 April.

Peter Murphy, Associate Dean of Forestry, has been involved in negotiations with the Parks Service. He says, "They have been very patient with us, but they can't wait forever" before looking at other options.

The facility was in excellent condition when it was closed, and inspectors from the University's Physical Plant Department have pronounced it fit. Still, an estimated \$50,000 would be needed to get the centre opened and running again, and approximately \$140,000 a year would be needed for operations until it could support itself.

Careful projections based on past use indicate that it would be cost-effective in three to five years. Dr Murphy says, "We are very confident that this is feasible, that it won't be a drain on the University." The problem, he explains, is that "of course at this stage we can't guarantee that, and the University is naturally cautious about taking on another facility in this time of fiscal constraint."

James Butler (Forest Science), speaking for the people who put together the U of A's original proposal, characterizes this as an unequalled opportunity that must be seized. "This is it. It's not like if you missed one train, you catch the next; there isn't another train out there. If we were to try to build something like this, first of all we'd never find

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FOLIO

University of Alberta

18 May 1989



Enrico Pasutto, William Taylor and Josef Takats (left to right) compare notes at a reception held in honor of the Rutherford Teaching Award recipients. The fourth recipient, Terry Davis, had an out-of-town commitment, but she and Professors Pasutto, Taylor and Takats will be at Spring Convocation to accept plaques that acknowledge their teaching abilities. At the reception at the Faculty Club, President Myer Horowitz introduced each recipient and presented them with cheques in the amount of \$2,500. He also extended special congratulations to the recipients' families. Article on page four.

INSIDE

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- Long range plans for University unveiled

Board of Governors approves balanced budget

At its regular monthly meeting on 5 May, the Board of Governors approved the 1989-90 preliminary operating budget. It shows revenues totalling \$270,790,000 and net total expenditures of \$276,290,000. Expense savings of \$2 million and a contribution for unallocated investment income of \$3.5 million combine for a balanced budget.

The provincial government notified the University last December that its grant for 1989-90 will be increased by 5 percent over last year. The exact amount will not be known until the provincial budget is brought down in June.

The balanced budget has been achieved through a variety of measures in reductions or improvements in revenue, accruing to the University, totalling \$1.3 million.

The Board also approved a tuition fee increase of 4.5 percent, effective 1 September.

President's report

In his report to the Board, Dr Horowitz summarized the main points resulting from the Dean's Colloquium held the first week of May. He said that three areas will be the focus for the next year: a commitment to try and pool money from a number of sources to recruit and keep quality people; a serious examination of the ways in which the University recruits the very best students, not only in Alberta but throughout the country; and that an extensive orientation system be devised during the first term. Dr Horowitz added that he's asked the Vice-President (Academic) to establish a committee to look at the general education programs and report its findings.

In a management shift, the President reported to the Board that the manager of HUB International will now report directly to the Associate Vice-President (Finance).

Dr Horowitz announced "with pleasure" that the Department of Occupational Therapy recently received one of the highest honors by being given accreditation for seven years. He added that he was told the department was "the best in the country."

More good news conveyed to the

Board was the fact that the University leads all of Canada in attracting eligible matching funds to the Social Sciences and Humanities Research Council of Canada. At 12 percent of the total funding, we head U of T, U of Montreal, UBC and Laval (in ascending order).

Special presentation

The President of Camrose Lutheran College, Rev K Glen Johnson, attended the meeting to "say thanks and to express the appreciation of the entire College community for the extraordinary service rendered to it by the men and women of the University over a 28-year period." On behalf of the College, he presented two watercolors by Martin Giesen (he's an art professor at the College), one to the University and the other to President Horowitz for being a "very great friend of our College."

Department Chair appointments

The Board of Governors Educational Affairs Committee announced the appointments of five department Chairs. All terms are effective 1 July 1989 and extend for five years.

Bruce Dancik will head Forest Science. A graduate of the University of Michigan, Dr Dancik joined the University in 1973.

Philip Knight will Chair the Department of Romance Languages. He was Associate Chair of the department from July 1985 to December 1986. Dr Knight, who has degrees from Victoria University of Wellington and Oxford University, came to the University of Alberta in 1969.

James Robertson will lead the Department of Soil Science. He obtained his bachelor and master's degrees from the University of Manitoba and his doctorate from Purdue University. He has been at the University for 34 years.

Tom Priestly will Chair Slavic and East European Studies. He is currently Chair of the Department of Religious Studies and was Chair of Slavic and East European Studies from 1974 to 1981.

Dr Priestly, who joined the University in 1970, has degrees

from Cambridge and Simon Fraser universities.

Gilbert Reschenthaler will be Chair of Marketing and Economic Analysis. He was Acting Chair of the department in 1987 and an acting assistant Dean of the Faculty in 1975. A graduate of the University of Texas, Dr Reschenthaler came to campus in 1967.□

Addendum

Confusion reigned as regards the naming of the prizewinners at the recent Chinese Language Speech Contest (*Folio*, 6 April). The list of the winners in each of the categories should have read this way:

Level 1, Sharon Domier
Level 2, Martine Chiasson
Level 3, Terry Williams
Level 4, Pingping Lee.□

AAS:UA surveys academic climate

The AAS:UA, on the recommendation of its Women's Issues Committee, has commissioned a survey, the purpose of which is to identify the perceptions of academic staff with respect to the work climate at the University of Alberta. The results of the survey will be reported to

the AAS:UA Women's Issues Committee.

Individuals' cooperation in completing the questionnaire is appreciated.

Completed questionnaires are to be returned to the AAS:UA office, 347 Athabasca Hall, by 24 May.□

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Horowitz addresses Friends of the University

President Myer Horowitz recently addressed the annual dinner meeting of the Friends of the University of Alberta—a dedicated group founded more than 45 years ago.

Recalling that one of his first speeches as President was to the Friends, Dr Horowitz invited the Friends to the Installation of the President-elect Paul Davenport. A few members of the Friends have known all nine Presidents. For those people especially, Dr Horowitz said he would love to introduce them to Dr Davenport . . . "I know that you will enjoy meeting him as much as I have."

Dr Horowitz then focused on five issues facing the University of Alberta: a fresh look at arrangements for easing the

adaptation of beginning students; a redefinition of a general liberal education for undergraduates; the implications of increasing numbers of graduate students; the balance between basic and applied research; and the relationship between universities and spin-off companies. "Are universities the best institutions to run companies? I think not."

The President shared his optimistic vision that the University of Alberta will be among the best for both undergraduate and graduate students, that the environment will encourage both basic and applied research, and that while responding to new developments in technology and science, we will still place emphasis on the humanities and fine arts. □

Torgerson elected NASA 'observer' on Board of Governors

Ron Torgerson has been elected by the non-academic staff to a three-year term on the University's Board of Governors.

The term starts on 1 June 1989; Mr Torgerson will hold "observer" status.

A programmer analyst with

University Computing Systems, Mr Torgerson has led the Numerical Computation Section since mid-1988.

He holds a PhD in theoretical physics from the University of Chicago. □

Range, complexity of research in Home Economics an eye-opener

Are you interested in how to keep oil sands from plugging up the well? Or what materials you need for protective clothing in your industry? Solutions to such problems are coming out of research being conducted in the Faculty of Home Economics.

The Faculty still does research in the traditional areas of foods and design, and includes a department devoted to family studies. Yet the range and complexity of research in Home Economics surprises many people. "I think we're the best-kept secret on campus," observes the Faculty's Dean, Eloise Murray.

In Clothing and Textiles, for example, Elizabeth Crown is working on protective clothing for people in the petroleum industry and for agricultural workers using pesticides. In the area of geosynthetics, Elizabeth Richards and Nancy Kerr are involved in research on the containment of sand in heavy oil wells, and Professor Richards is working with Engineering colleagues on a variety of soil reinforcement problems.

Other research also has

potentially wide-reaching impact. For example, what Zenia Hawrysh (Foods and Nutrition) learns about canola properties has implications for Alberta's economy as well as for diet and health. She also has created gluten-free rice flour yeast bread—important for people who cannot digest wheat flour—and other researchers are working on nutritional therapies for a variety of human diseases.

The unifying thread in Home Economics research is a concern for improving the quality of human life, and pursuit of that goal is attracting people from diverse backgrounds. Recent additions to the Faculty include Feral Temelli, who earned two degrees in chemical engineering before focusing on food science for her PhD, and Sandy Niessen, an anthropologist and current Killam Scholar.

As Dean Murray says, "We value people who come from traditional home economics backgrounds, but we can see the contribution that can be made to our program by people from other disciplines." □

Michael James to be inducted into Royal Society of London

Michael NG James, Professor of Biochemistry and one of the world's leading protein crystallographers, has just been named a Fellow of the Royal Society of London.

"This is a very great honor and represents recognition that is perhaps second only to a Nobel prize," says WA Bridger, Chair, Department of Biochemistry.

Dr James is only the third faculty member at the University of Alberta to be so honored (the others are Raymond Lemieux and Werner Israel), and he is the first member of the Faculty of Medicine to be named a Fellow in its 75-year history. Of 40 new Fellows in all scientific disciplines, only 11 were from outside the United Kingdom. Dr James is the only Canadian so cited.

Dr James is a native of Vancouver but grew up in Toronto and Winnipeg. He received education in chemistry and chemical crystallography at the University of Manitoba before moving to Oxford University where he obtained his doctorate working under the tutelage of Dorothy Crowfoot-Hodgkin, FRS, who won the Nobel prize for Chemistry in 1964 while Dr James was working in her laboratory.

Dr James came to Edmonton in 1967 as a postdoctoral fellow in the Chemistry Department at the U of A, and in 1968 moved to the Biochemistry Department as a Scholar of the Medical Research Council (MRC) and an Assistant Professor of Biochemistry, where he was given the challenge to establish the first laboratory in

Canada devoted to the determination of protein structure by means of x-ray crystallography. This required not only the development and mastering of complex experimental, mathematical and computational theories and techniques, but the assembly of specialized and expensive instruments and facilities at a time when granting agencies had no precedent for dealing with this pioneering approach. Since that time, Dr James and his group (which includes his wife, Anita Sielecki, and many talented students, postdoctoral fellows, technicians and computer experts) have used this technique to determine the three-dimensional structure of dozens of proteins at especially high resolution or accuracy. These proteins fall largely

into two groups, namely a group of proteins that bind calcium and families of proteases which are enzymes that can hydrolyze (or cut) other proteins.

One especially notable recent achievement of his laboratory was the determination of the structure of renin, a kidney protease that starts the complicated cascade of events that ultimately results in the elevation of blood pressure. Knowledge of this structure, which Dr James solved in competition with much larger groups in research institutes of drug companies around the world, now provides exceptional opportunity for the design of new and specific anti-hypertensive drugs.

Dr James will be inducted into the Royal Society at ceremonies in London in June. □

Josef Takats, William Taylor: Rutherford Award recipients

Chemistry's standing as an exact discipline cuts down on the number of tangents that teachers and students can go off on. There seems to be more pressure on chemistry (and other hard science) teachers to present an undergraduate lecture in such a way that students absorb the day's information and leave the classroom thinking about doing independent research at their earliest opportunity.

Someone fresh from graduate school, whose training is not really in teaching but in pure research, may be in over their head when called upon to instruct a chemistry class. Josef Takats was in that position in 1971.

The first time before a big class was "a pretty unnerving experience", what with 200 pairs of eyes sizing him up and waiting for him to pique their interest in inorganic chemistry.

A stranger to the ad lib and the performance style of teaching, but not one to ruffle easily, Dr Takats made his points as best he could, relying to a great extent on enthusiasm and his own affinity for the subject: he's a chemist; he takes satisfaction from talking to budding chemists. Then, as now, if he senses he's not getting through to his students, he has no reservations about admitting it, reworking his material and trying a different tack next time.

"A love of teaching snuck up on me," Dr Takats says. "I knew I liked research and now teaching is a very important part of my career here. I genuinely like to teach; it's a satisfying experience."

That he has grown in his teaching role has been proven time (he's earned the Faculty of Science Award for Excellent Teaching) and again (in 1987-88 he received the highest student evaluation of any member of the Chemistry Department).

"I'm somewhat conservative in that I remain true to orthodoxy in class," he says.

A graduate of Université de Montréal (BSc, Honors Chemistry) and the Massachusetts Institute of Technology (PhD), Dr Takats believes that "at a university, one must be a very active researcher too. You must be aware of recent developments and show students that what they're learning has immediate relevance."

To what lengths will Josef Takats go on behalf of his students? To produce a lecture module which illustrates the application of acid-base chemistry, complex ion equilibria, and electrochemistry, he sought out research chemists at Sherritt-Gordon in Fort Saskatchewan and obtained

information about the electrorefining process. A colleague notes: "The fact that he managed to touch on more than half of the 'core' content of the first year chemistry course in a single lecture was indeed impressive. More impressive, however, was the clarity and precision with which it was so enthusiastically presented."

To cite another example of Dr Takats' thoroughness, a former student (who's now a fourth-year graduate student in chemistry at Harvard University) recalls that he approached Dr Takats after class with a question about an exam. "He patiently went through the entire exam to make sure I understood the answers. The next day he repeated the entire session with a friend of mine."

Further evidence that he has students' interests at heart is that, as staff coordinator for the first Western Canadian Chemistry Undergraduate Conference, he motivated students to organize and host a research conference which allowed them to meet with other chemistry students, present the results of their research projects, and discuss chemistry with some of Canada's top chemists. The conference, first held in 1987, has become an annual event.

Each spring he helps organize a two-day teaching workshop involving northern Alberta high school science teachers.

Dr Takats has contributed sections to the department's lab manuals and he's currently chairing a committee that's conducting a complete review of the undergraduate curriculum.

In August he will attend the 10th International Conference on Chemical Education, held at the University of Waterloo.

William Taylor

What makes William Taylor a little different from most undergraduate educators is that he's specialized in testing as well as teaching.

"In medical education we have to certify people as being fit to practise medicine. That's a life and death decision," he points out.

Dr Taylor has spent nearly 20 years helping establish sound criteria on which to base these tough decisions. In these two decades he's been closely involved in designing national and local exams to test would-be doctors.

"I am very much a tester and a designer—of multiple choice questions, patient management problems, objective structured clinical exams," he says.

He's expert in these areas because he's kept up with technology—as well as being an enthusiastic and involved teacher. He took his first computer course back in the '60s; he has his own computer at home; and "we use computer technology for everything we do in my division. But," he stresses, "I don't worship the technology. It's what I can do with the technology that's so important." Included in the many opportunities technology opens up are the computer simulations of patient management problems he uses as a teaching device; instant post-exam feedback to students of

individual results and class averages; and the use of video as teaching tool (taking over from the films Dr Taylor made in the '60s.)

A professor of pediatrics and teacher for 44 years, Dr Taylor "loves to work with young people, and in this Faculty we get the cream of the crop. That's kept me young and vital."

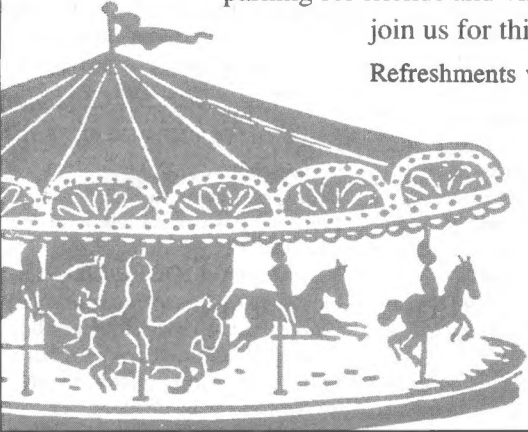
Concentrating on small group teaching, "I don't sit as the guru who knows everything," he says. "I share my knowledge and my ignorance with the group, get them involved, get them to do the looking up." (Says a former student, this approach not

A Celebration

OF MYER HOROWITZ'S PRESIDENCY

Everyone is invited to an afternoon reception on Friday, 16 June, to honor Myer Horowitz. The reception will be held in the Arts Court from 3 to 5 pm and it will give everyone an opportunity to meet with Dr and Mrs Horowitz. A retrospective exhibit of the Horowitz years will also be on display in the Galleria connecting the Tory and Business Buildings.

University buildings will close at 3 pm on 16 June and there will be free parking for friends and visitors who join us for this celebration. Refreshments will be served.



only "simplifies the most complicated case but it instills a thirst" to go away and find out more.)

Even with his larger classes (100 or so), Dr Taylor (who admits to being a pacer when he teaches) walks in amongst the audience, fixes someone with a direct (but kindly) eye, challenges them with a question, then tries to coax out the answer.

"But I never put a student down in class. I was exposed to so much of that in Aberdeen and

Edinburgh. Not that I don't tear strips off students—and I can have a very stern face," he adds with a chuckle, "but if I do that, I do it privately."

Good teachers are good "performers", Dr Taylor believes. But performing shouldn't be confused with entertaining, he says. A good performer engages the audience, involves them and challenges them to think. An entertainer just makes the audience forget themselves.

"I get a charge out of doing a good job of teaching," he confesses. "When I know I've had an audience turned on, done a good job—I get great satisfaction from that."

This lean, keen, outdoorsman and trailhiker, recently was offered a mountain bike as a birthday present but turned it down in favor

of a baby-sized "hippy dolly" to add to his collection ("about six now") of anatomically correct teaching dolls. (The new acquisition has a dislocated hip that enables students to get the real "feel" of examining a baby with the defect.)

To help beginning teachers derive the sort of satisfaction that he has enjoyed over the years, Dr Taylor offers three brief pieces of advice: prepare your material with the greatest care and know it thoroughly (he still spends an hour the previous night going over his notes for sessions he's been giving for nine years); challenge your students to learn; and be ready to learn from them.

Born in Scotland, William Taylor graduated (with the Gold Medal) from the University of Aberdeen in 1945. A decision to specialize in

pediatrics brought him by way of Edinburgh's Royal Hospital for Sick Children and Edinburgh University to Winnipeg and then to our Department of Pediatrics full-time in 1957, "delighted to be able to combine teaching and practice."

His growing interest in the teaching, learning, testing continuum was recognized in 1973 with his appointment as assistant director of the RS McLaughlin Examination and Research Centre—which designed and produced exams for national bodies such as the Royal College of Physicians and Surgeons and the Medical Council of Canada. When the centre was transferred to Ottawa two years ago, Dr Taylor was instrumental in establishing the Division of Studies in Medical Education within the Faculty of Medicine, and he is its first director. □

Centre for International Business Studies established

A Centre for International Business Studies has been created in the Department of Marketing and Economic Analysis.

The Centre's objectives are: to increase Alberta's human resource base in international business by offering educational programs for managers; to encourage interaction between students, staff and the businesses involved in exporting, joint ventures, and other forms of international business and trade; and to develop teaching and research materials necessary to ensure that Albertans have access to up-to-date information.

To attain these goals the Centre will sponsor an annual conference, a cooperative program between students and business whereby each benefits, a program of research and curriculum development, and a student exchange program with a comparable institution in another country.

The Centre for International Business Studies will be operational within one year. □



Don Mazankowski, Deputy Prime Minister of Canada, presents President Myer Horowitz with a cheque covering the federal government's contribution to the Centre.

Successful Final PhD Oral Examinations

Name	Department	Final Thesis Title	Supervisor
Christine Eliane Boumah	Medicine	"Studies on the Human Myelin Basic Protein Gene"	WC Leung
Karuna Vishnu Deo	Slavic and East European Studies	"The Cognitive Anchoring of Selected Russian Adverbials"	KT Holden
Philip Rodney Evans	Educational Administration	"Ministrative Insight: Educational Administration as Pedagogic Practice"	M van Manen
Maleena Imbeah	Animal Science	"Ingredient Interaction and Rate of Passage Studies with Pigs"	WC Sauer
Keith Kosar	Civil Engineering	"Geotechnical Properties of Oil Sands and Related Strata"	JD Scott
Keith Charles Lepla	Chemistry	"Photodiode Array Spectrometer Systems for Inductively Coupled Plasma Atomic Emission Spectrometry"	G Horlick
Suzanne Elizabeth J MacDonald	Psychology	"Short-term Memory for Item and Order Information in Pigeons"	Douglas S Grant
Ahmed Sameh Mohamed	Computing Science	"A Hybrid Numerical/Knowledge Based System for Locomotion Control of a Multi-legged Articulated Robot"	WW Armstrong
Lal Samarasekera	Civil Engineering	"Analysis and Design of Excavations in Clay"	Z Eisenstein
Lin-xian Wu	Medical Microbiology and Infectious Diseases	"Virus Infection and Experimental Allergic Encephalomyelitis"	AA Salmi

Campus Long Range Development Plans

A long range development plan provides a framework to ensure the orderly development of the campus. This is usually in the form of a set of guiding principles. Within the context of these principles, individual facilities can be developed with the assurance that they will contribute to the aggregate quality of the campus. To remain valid and not become quickly obsolete, the principles address only those elements that will endure the changing needs of the University. These include such things as perimeter campus image and identity, vehicular and pedestrian circulation systems, open spaces and building interface.

Northeast campus plan

The University has recently updated the long range plan for the area of the campus east of 112 Street and north of 87 Avenue. The update also encompassed a review of the principles guiding the development of the entire campus. One issue addressed was the University as an entity and a

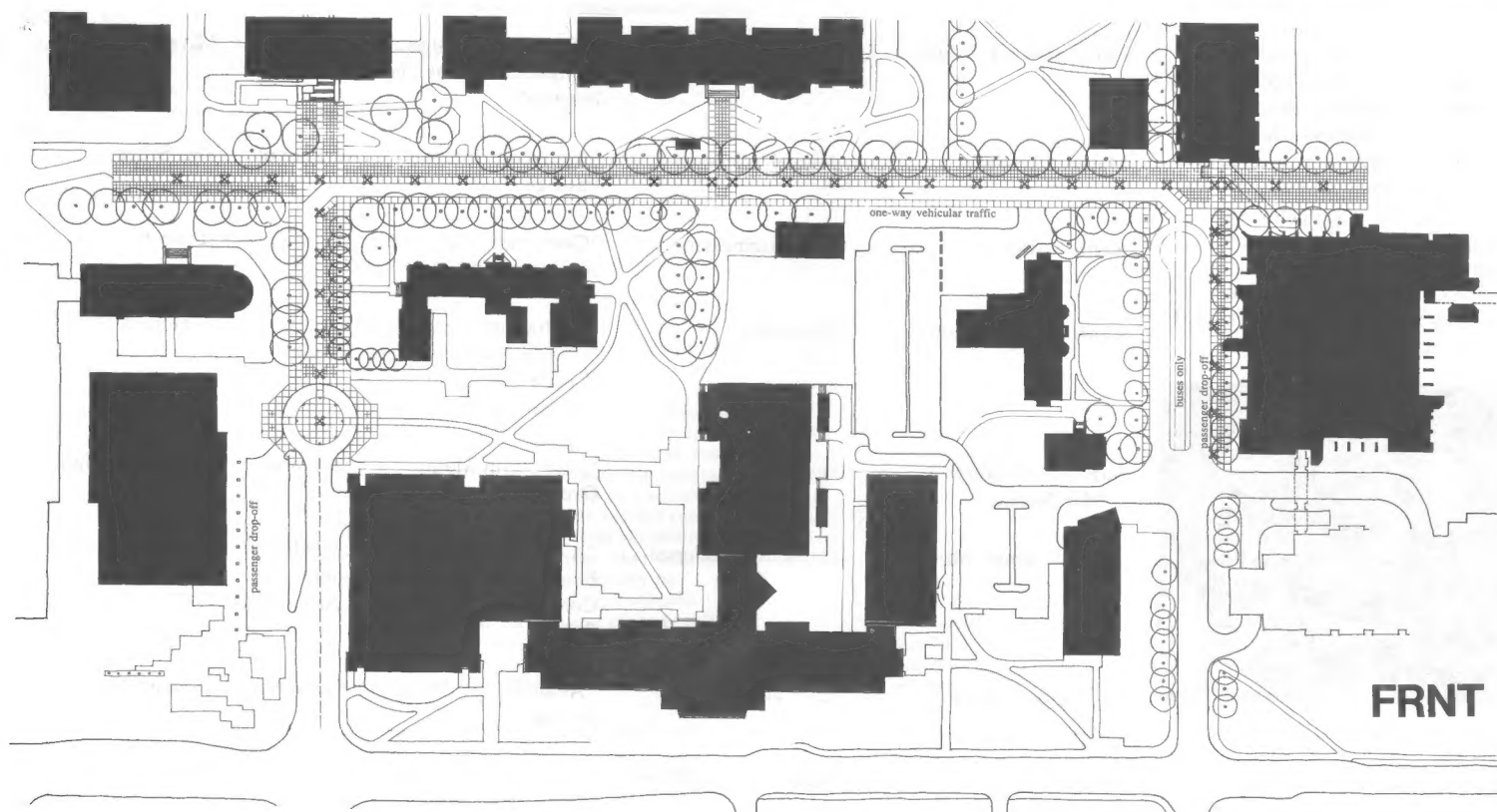
neighbor. The original campus master plan of 1912 envisaged a campus with both a strong identity and a clear separation from the adjacent community, articulated by a perimeter fence and a major statement of entrance in the form of gates. Today, the University is viewed as a much more integral part of the community. The sense of separation created by a fence would today be inappropriate, but yet the campus should still read as a separate precinct. Therefore, a subtle perimeter separation, such as that afforded by a landscaped setback or yard, has been recommended.

The character of this campus perimeter can also be handled in a manner that will enhance the physical identity of the University. Repetition of elements, as was employed in the original fence design, will clearly define the perimeter of the University. Consistent treatment of vegetation, particularly trees, can be utilized, as can street furniture, such as a distinctive University light standard. Identity will be further reinforced if specific landmarks are utilized at campus corners and

major approaches to the campus. The University has several such examples, in the signage at 87 Avenue and 110 Street and the floral identity at 87 Avenue and 112 Street. Coordinating the design of all these elements would enhance the identity of the University.

Regarding campus vehicular circulation, it is the stated objective of the University of Alberta to have a 'people-oriented' campus. To that end, the University has already adopted a set of principles to guide the long range development of the campus circulation system that will maintain and enhance the campus as a predominantly pedestrian domain. Cars have been limited for the most part to a perimeter ring road. Major parking structures are located adjacent to this ring road. Passenger drop-off points are located where pedestrian walkways intersect the ring road. Service and emergency vehicles are also kept to the perimeter, except those that are essential within the heart of the campus. These are on routes restricted from public vehicular access, and are usually combined with pedestrian walkways.

Currently, 87 Avenue, 116 Street and Saskatchewan Drive function as perimeter roads for the north campus area. However, there is no clearly defined perimeter road on the northeast, where 110 and 111 Streets form a one-way couplet. Inside this couplet are the Garneau student housing precinct and other University lands intended ultimately for the development of academic facilities. To integrate these future academic facilities with the rest of the campus to the west, and to reduce traffic on 110 Street, in recognition of the residential uses bordering both sides of it, the plan has called for the realignment of 111 Street, to abut the west side of the housing precinct and the small existing Garneau Park. This will complete the perimeter ring road loop, and have Saskatchewan Drive east from 116 Street and 111 Street north of 87 Avenue primarily servicing the University. In accordance with the principles of enhancing the identity of the University and providing the campus with a strong sense of place, this segment of the perimeter road could have entrance landmarks erected at each end. Within the northeast campus study



A one-way loop on 89 Avenue.

area, one such example could be structures to each side of 111 Street at 87 Avenue.

With the realignment of Street, the existing pedestrian space system would then be extended to the east, by converting the existing 111 Street north of 89 Avenue into a pedestrian mall, along which would be located new academic facilities. A major plaza would be located where this 111 Street mall intersects the existing 89 Avenue pedestrian mall in front of the Faculty of Law Building. This reflects the recommended principle that the University "utilize old streets as pedestrian walkways to retain the historic fabric of the area and the mature trees lining their boulevards".

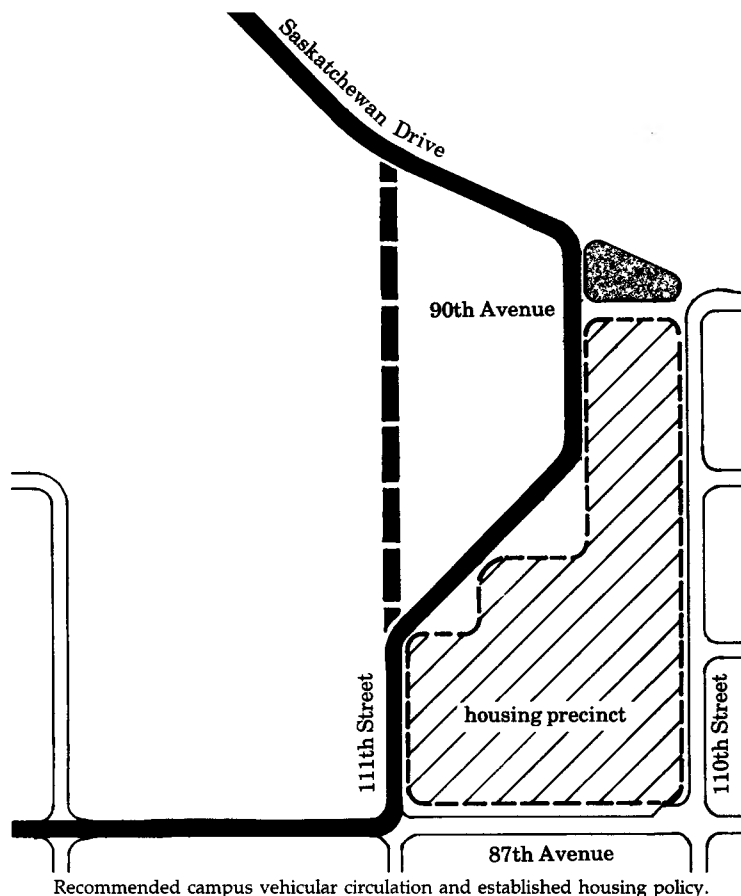
The plan also addressed the future provision of parking, in particular related to the replacement of surface lots east of HUB Mall and south of Fine Arts. Parking will continue to be distributed around the campus periphery, linked to the perimeter road, but wherever possible, will be located underground below new buildings as they are constructed. The first implementation of this policy will be the Timms

lections Centre, which includes two levels of underground parking.

Long range transit study

A separate study addressing the future provision of transit service to the University will also have a significant impact on the northeast campus area. The City of Edmonton is currently extending its light rail transit system to the University. A construction start on the University Station is planned for 1989. Scheduled to open in 1992, the station will be located under the existing 89 Avenue, which presently accommodates a major on-street bus interchange. During the 30-month construction period, this bus interchange will have to be relocated. When construction of the station is complete, bus routings and stops will again be reorganized to accommodate a connection with the new LRT station. Today, more than 20 routes use this street, with nearly 100 buses arriving during the three-hour pm peak period,

approximately 1,000 buses daily. The University has for some time had concerns about safety of pedestrians in this very busy area. Construction of the LRT station has



provided an opportunity to consider alternate arrangements.

The study concluded that it was most appropriate to reintroduce bus service on 89 Avenue in 1992, to accommodate bus-LRT transfers and to provide good transit coverage to the major University facilities in proximity. In conjunction with this, two steps can be taken to reduce pedestrian-vehicular conflicts. Firstly, all vehicles except buses and service or emergency vehicles can be excluded from 89 Avenue, thereby increasing pedestrian safety. Passenger drop-offs can be accommodated on 112 and 114 Streets. Secondly, a westbound one-way system for vehicles can be introduced. Pedestrians would then only have to look in one direction for moving vehicles, which would further increase safety. The one-way system would also substantially reduce the roadway width required, thus leaving a considerably wider pedestrian walkway (see illustration).

As well, there are two other aspects of the Edmonton Transit scheduling that contribute to the current 89 Avenue congestion and for which the University will be encouraging changes. Currently, buses lay over on 89 Avenue to

accommodate the 'timed transfer' of passengers from one bus route to another. These people are neither originating on nor destined to the campus, but are simply passing through it. The layover also complies with a rule requiring regular rest periods for bus drivers, another matter not directly tied to the campus. These activities increase the time spent by buses on this street, and a corresponding maximization of their number at particular times. Relocation of these functions to other points on the bus system would further increase pedestrian safety.

The introduction of these changes to vehicular movement, combined with a handsome redevelopment of 89 Avenue as a pedestrian mall upon completion of construction of the University LRT Station will ensure that this will be very much a 'people-oriented' area of the campus.

The foregoing are excerpts from the University of Alberta Long Range Development Plan which was prepared for the Department of Planning and Development by Cory Cunningham Architect Ltd, Edmonton.

Next: Long Range Development Plan for the Faculté Saint-Jean.

Acquisition

Continued from page one

the site, and secondly we'd never have the millions and millions of dollars it would take to do it."

Despite the University's leading reputation in environmental protection programs including natural resources, wildlife, endangered species, and national parks, the institution has no research stations in the mountains. Having the site would close that long-perceived gap in the University's research capabilities.

The site would also support the work of other campus initiatives such as the Environmental Research and Studies Institute, a proposal sponsored by the Office of the Vice-President (Research). The institute would act as a focal point to coordinate and raise the profile of the extensive environmental research being done on campus.

There is no official link between the Palisades Centre and the Environmental Institute, but Vice-President (Research) Bob James confirms that "The two would certainly work closely together if [they were] put into operation."

When asked about administrative support for the Palisades Centre, Dr James said, "Quite a few are enthusiastic about it, but the problem is funding. That's a very big obstacle."

To have no funding despite the widespread recognition of the unique potential in this opportunity "has left a lot of faculty members very frustrated," says Dr Butler.

While some people hope that administrative decision-makers still will give this vision a high priority, others think their last hope may come from alumni or a foundation. Dr Butler says the project "lends itself very well to somebody who wants to leave something in their name. We're willing to bend over backwards to acknowledge and recognize that contribution."

Dr Butler points out that the park site offers the stable environment necessary for long-term studies, and U of A faculty have the expertise to make it a model facility. They also have the international reputation and contacts to draw scholars and students from around the world for research and training. He says, "We have the interest, the momentum, the vision . . . All we need are the resources to get it started." □

Political Science students receive Edmonton Consular Ball Endowment Fund Scholarships



Edward Osei-Kwadwo, President Horowitz and Jacqueline Scott.

The Edmonton Consular Ball Endowment Fund Scholarships in International Studies were awarded on 8 May at University House.

The scholarships were presented by the Acting Dean of the Consular Corps, Consul-General G Braumeuller of the Federal Republic of Germany. He also turned over the Corps' contribution to the Consular Ball Endowment Fund to President Myer Horowitz.

This year's scholarships were awarded to Edward Osei-Kwadwo, a master's student in Political Science, for his research paper titled "The UN and the African Economic Crisis", and to Jacqueline Scott, a fourth year Political Science

student, for her project proposal "Is the Present Structure of the United Nations Peacekeeping Operations Effective?" Both received \$1,000, with an additional amount of up to \$1,000 available for travel.

The awards are open to senior undergraduate and graduate students in History, Law and Political Science for projects related to "the study of any aspect of the relationships between nations, and the conduct of these relations, and the organizations established by the international community as a means to facilitate these relations." □

Nomination for academic staff to serve on the Board of Governors

The election recently held to fill one of the two upcoming vacancies on the Board of Governors for an academic staff member resulted in the election of BJ Busch of the University Library. Nominations for the second vacancy are now sought.

The procedures which govern these elections are contained in Section 22 of the GFC Policy Manual and are available in the University Secretariat, 2-5 University Hall.

Since at least one of the two academic staff positions on the Board must be held by a member of the full-time continuing faculty (category A1.1) who does not hold a senior administrative position, *only nominations from that constituency can be accepted*. All continuing staff, however, may act as nominators—faculty members, APOs, FSOs Librarians, soft-tenure faculty (eg, Heritage Scholarship and NSERC Fellows), and continuing part-time counterparts to any of these academic staff categories.

Nominations should be submitted in writing to Ellen Schoeck Solomon, 2-1 University Hall, must be supported by the signatures of five other academic staff (as described in the paragraph above), and must be **received by 6 June 1989, 12 o'clock noon**. Nominees must be willing to serve, and will serve a three-year term on both the Board and General Faculties Council. A biographical sketch of the nominee should accompany the letter of nomination.

If you have any questions, contact Ellen Schoeck Solomon, 492-5430, or on PROFS (ESOLOMON).



'Give me an M, give me a P ...'

Allan Warrack, Vice-President (Administration) and the first director of the Master of Public Management program, gets into the (team) spirit of things at the five-year reunion of the first graduating class. From 1984 to 1988, 38 students received their degrees. This year's graduating class will have 10 students awarded the MPM degree.

Correction

Copy went missing in an article on the appointment of James Dykes as Director of Planning and Development (*Folio*, 27 April 1989, page three).

The last sentence stated: "Together with Physical Plant and Technical Services, Planning and Development is responsible for facilities plans and long-range plans for the orderly development of the University." The sentence should have read: "Together with Physical Plant and Technical Services, Planning and Development reports to the Associate Vice-President (Facilities Planning and Development is responsible for facilities plans and long-range plans for the orderly development of the University." □

Alberta art brightens hallways of Corbett Hall

The hallways of Corbett Hall may be getting older, but they're also getting better.

Recently, several works of Alberta artists found a permanent home at the Faculty of Extension.

The pieces were purchased as part of the celebration of the Faculty of Extension's 75th anniversary in 1987.

In honor of Extension's 75th year, a special committee invited Alberta artists to submit their

works for acquisition and display in the Faculty. More than 250 works by 30 artists were considered.

The purchases were funded with the help of the University/Community Special Projects Fund.

Denis Haughey, Chair of the Selection Committee, says the Faculty wanted to pay tribute to its past, present and future learners.

"We believe this will be a permanent reminder of our service

to adult learners in Alberta," said Haughey. "The Faculty has been very involved in the fine arts for the past five or six decades. This gave us the opportunity to show our gratitude to and respect for the arts community in Alberta."

Works by Terrance Keller, Marlene MacCallum, Gwyneth Stark, Mary Shannon Will and Richard Yates were selected by the committee and have now been installed in Corbett Hall. □



LETTERS

In defence of steel constructed sculpture

■ I feel I must make a rebuttal to Professor Himka's letter regarding Sir Anthony Caro and Professor Himka's decided lack of appreciation for the steel sculpture near the Fine Arts Building.

A lack of appreciation is one of the facts of life artists must live with tempered with a realization that, perhaps, a lack of understanding is at root cause for such an angry and defensive posture on the part of this letter's author.

Just as in music, literature and science, art, be it steel constructed sculpture or whatever, must extend itself beyond traditional modes of perception and in so doing drag the less advanced thinker in our society forward like a baby born into but fearful of the light.

Sir Anthony Caro needs no defender. He has been the inspirer of ideas and ideals in art for forty years and a detractor or two will not affect two generations of appreciators, students and fellow artists alike. His genius is untarnished by vituperation.

Edmonton has a strong and vibrant artists' community, not the least of which is involved with the making of sculpture. Non-representational steel sculpture is one aspect of that community and one could make a musical analogy between the non-figurative and figurative direction of sculpture, leaving aside the choice of materials for a moment. Let's say that non-figurative art is more akin to Bartók as Spirit through Form versus figurative art as exemplified musically in Mahler's works as Form through Spirit. Modern art takes getting used to, Professor Himka, and sometimes it takes some study also just as one must try to understand modern music or physics through study and an open and inquisitive mind.

The choice of material is based upon interest, advantage and, yes, aesthetic considerations above all. Rust is not BAD by its nature. Artists who choose to work with steel love the strength, weighty and rich surface of the material and its quality of change.

Seeing art requires looking. "Passing rusty clumps of metal that pass for steel sculpture," to quote Professor Himka, is not looking to understand but looking by and disregarding out of hand.

It is not so different from rejecting a thesis for its cover or even from its title without so much as cracking the binding for a short perusal.

If the University is to be a place of knowledge, tolerance, and understanding, it is incumbent upon us all to try to maintain the youth of an open and flexible mind, to make judgments only through an educated perception and to question at all times one's preconceptions.

Lest it be inferred from this letter that I am a steel sculptor defending the aesthetic fort, let it be stated here that I am, on the contrary, a figurative sculptor far removed from what I perceive to be Professor Himka's particular dislikes vis-à-vis rust and clumpiness, but I for one find great beauty in good art such as that very collection of steel sculptures in question.

The FAB Gallery show last month of Edmonton steel sculpture was, in my opinion, the best group show in this city in a decade or more. Sir Anthony was its forebearer and its inspirer.

Edmonton has, for complex reasons, not the least of which is the University artists' community, developed as a strong, internationally recognized sculpture centre. This is a reality untroubled by an angry and defensive voice of derision. This summer take a look at the outdoor sculpture show at the Edmonton Art Gallery/Courthouse and see the variety and quality of our city's sculptors.

Neil Fiertel

Department of Art and Design

Last word on 'bollixed'

■ I wish that you had added a note to Professor Stephens-Newsham's letter (*Folio*, 27 April 1989) explaining that the word 'bollixed' was yours, not mine.

I did not use such a word. Had I done so it would have been closer to its Anglo-Saxon root, and applied not to an impersonal computer but to your friendly, genial reporter, who seems on this occasion to have, er, bungled.

John Orrell

Department of English



Heraldic identification

This Coat-of-Arms was granted recently to St Joseph's College. The device on the shield is a lily (traditional symbol of St Joseph) from which issues the flame of knowledge. The "embattled" left border suggests the defence of traditional values; the right border with its rays symbolizes the exploration of new truth. The horse and stars of the crest are taken from the Arms of Henry Marshall Tory and Archbishop O'Leary respectively (the two prime movers in the 1926 affiliation of the College with our University) and the wild roses are our provincial flower. The motto translates as "Whatsoever is true, teach me," and the colors—green and gold—are the colors both of the College and the University.

EVENTS



Talks

Radiation Oncology and Pathology

Luis Fajardo, Stanford University, and Alberta Heritage Foundation for Medical Research Visiting Professor, will deliver the following lectures:

18 May, 9 am "Rapidly Proliferating Tissues I."

18 May, 2 pm "Rapidly Proliferating Tissues II."

19 May, 9 am "A Systematic Approach to the Pathology of Radiating Injury."

19 May, 1 pm "Delayed Radiation Effects and Radiation Oncogenesis."

19 May, 2 pm "Pathology of Accidental Total Body Exposure."

All lectures at the Radiation Oncology

Instruction Room, Cross Cancer Institute.

Economics (Eric J Hanson Memorial Lecture)

18 May, 3 pm Cliff Walsh, director, Centre for Research on Federal Financial Relations, Australian National University, Canberra, "The Political Economy of Economic Advice." Stollery Centre, Business Building.

Religious Studies

19 May, 11 am Victor Sasson, "King Solomon and the Dark Lady in the Song of Songs." Senate Chamber, Arts Building.

24 May, 11 am Jerome Lund, "The Nature of Pluses in Ancient Versions: The Case of the Peshitta of Genesis." Senate Chamber, Arts Building.

26 May, 11 am Ehud Ben Zvi, "The Reign of Ahaz (2Chr 28:1-27)—A Paradigm of the Chronicler's Thought." Senate Chamber, Arts Building.

Alberta Heritage Foundation for Medical Research

19 May, 11 am John H Law, professor of Biochemistry, University of Arizona, Tucson, "Biochemistry of Insect Egg Formation." 207 Heritage Medical Research Centre.

Continued on page twelve

Effective Writing Resources Writing Program, Spring / 89

Workshops:

1. "Writing for University": a review of basic composition skills, such as organization, paragraphing, and sentence-level skills; includes a final diagnostic Writing Competence Test.

Saturdays, May 27 and June 3: 9 am to 4 pm
12 hours - \$75 (including test)

2. "Revising and Editing Your Thesis": includes solving organizational problems; revising for paragraphing, sentence structure and word use; and editing for grammar, spelling and punctuation.

June 5, 7, 12, and 14: 6:30 to 9:30 pm / 12 hours - \$75

Diagnostic:

1. Alberta Universities' Writing Competence Test: open to anyone who wishes a diagnostic assessment of writing skills; a certificate is available to anyone who passes the test.

Saturday, June 24: 9:30 to 11:30 am - \$40

2. Portfolios: an evaluation of writing abilities is also provided from samples of previously written material.

Individual evaluations by appointment - \$40

Register at: 302B Students' Union Building
Phone: 492-2682

Proclamation: Fit Canada Week 26 May - 2 June 1989

Fit Canada Week is but one of 52 weeks that sees thousands of our students and staff actively involved in physical activity. Regular physical activity is part of the lifestyle of many people on this campus and so Fit Canada Week simply highlights what we do all year.

Some members of our University community, however, are so immersed in their work and studies that the opportunities and benefits of the active lifestyle escape them.

Fit Canada Week and PACE Day, Wednesday, 31 May, are important events to highlight the benefits of physical activity. PACE Day presents an opportunity for active people to demonstrate their commitment and for those who need encouragement to take the first step.

Set the PACE

The Quad will be the hub for the 1989 edition of PACE (Participation Challenge Edmonton) Day. Past years have seen the University lead the city with more than 60 percent participation.

President Horowitz will start the 6 km run from the Quad and then join the "wonderwalk". In the Quad, a variety of activities will be

taking place: yoga, T'ai Chi, a gentle aerobics class, and a soccer ball juggling display by the Edmonton Brick Men.

Campus Fitness and Lifestyle staff invite everyone to join them for PACE Day. If you can't, but have put in 15 minutes of physical activity, call 492-2781—it will count towards the University's total. □

Rock-a-bye baby . . .

Why does rocking soothe a crying baby?

Rocking makes a baby breathe faster and more regularly, says a University of Alberta researcher who has studied the effects of rocking on babies who cry excessively.

Ruth Elliott's study focused on six-to-eight-week-old infants (the peak crying period for babies) who cried more than three hours a day and more than three days a week. Dr Elliott calls them "excessive cryers", others call them "colicky", and parents of such infants are often at their wits' end.

The babies (there was a control group of "normal criers") were placed in a motorized baby carriage that allowed exact measurement of

two rocking speeds (fast and slow). Monitors measured the babies' respiration rate and the rocking speed.

Rocking was started only when a baby had been crying for a full minute—"the crying had to be fullblown not just fussing," says Dr Elliott—and was turned off after four minutes. By that time, the crying had usually stopped.

Monitors showed that as the baby was rocked, breathing changed from irregularly spaced deep and shallow breaths with pauses to a faster, more regular rhythm. The baby also tended to

Continued on page eleven

ACTIVITIES

D Ian Gough (Physics) has been awarded the Rudolf Krahmann Memorial Medal by the South African Geophysical Association for the year 1989. Dr Gough, a native of South Africa, has been at the University of Alberta since 1966. Among the many awards and honors he has received is the prestigious J Tuzo Wilson Medal of the Canadian Geophysical Union, awarded in 1983 . . . **LC Green** (University Professor) has been elected a member of the Executive Council of the American Society of International Law. A recent visit to the University of Colorado saw him participate in a conference on world affairs (he was a member of seven different panels) and deliver a lecture to the Department of Political Science on "New Trends in Terrorism". . . A donation of \$16,000 has been made by Shell Canada Ltd to **Jacob Masliyah** (Chemical Engineering) towards his research activities . . . Among the Alberta Visiting Fellows at the University of Edinburgh's Centre of Canadian Studies are **Gerald Redmond** (Physical Education and Sport Studies) and **Bruce Ziff** (Law). The fellowships are made possible by an annual grant from the Government of Alberta . . . On 11 April, Edmonton City Council appointed **Shelley Lane** (Occupational Therapy) as a member of the Advisory Committee for Services for Disabled Persons for a one-year term (to conclude 31 December 1989) . . . **DW Smith** (Civil Engineering) recently presented the second annual Eb Rice Memorial Lecture sponsored by the Cold Regions Engineering Division of the American Society of Civil Engineers. The conference was held in St Paul, Minnesota; Dr Smith's topic was "Cold Regions Environmental Engineering: Tomorrow's Challenges" . . . Renovations to HUB International Marketplace will be completed soon (total time: 2 1/2 years; total cost (\$13.5 million). By way of celebration, a rededication was held and reminiscences of the building's 17-year history abounded. The new look is enhanced by 168 flags that represent the member countries of the United Nations and the countries which have students studying here. The HUB contractor, Stuart Olson Ltd, donated plaques which indicate each country's flag.

Feeders' Day: All roads lead to Ellerslie

It behooves *Folio* to note that the 68th annual Feeders' Day will be held on 1 June at the Beef Cattle Test Unit, Ellerslie Research Station.

The Day will get under way at 9 am with registration and words of welcome from Mick Price, Chair of the Department of Animal Science. A series of 20-minute talks by faculty members will ensue.

The afternoon portion of the program (starting time: 1:30) features four panels of experts who will discuss and respond to questions on these topics: Feeding and management, Animal health and welfare, Animal breeding and reproduction, and Carcass and meat quality/safety.

Demonstrations, industry displays, poster presentations with the latest research results, and a

steak barbecue will complement the verbal side of the Day.

Feeders' Day is intended primarily for producers, but it does appeal to many lay people, including President Myer Horowitz, Dr Price says of the department's major extension effort. With the assistance of the Day's co-sponsors, the Alberta Cattle Commission and Alberta Agriculture, and district agriculturalists, Dr Price and his colleagues plan to make all farmers within a 100-mile radius aware of the event.

Feeders' Day has been held at the University Farm and in various districts in northern Alberta. A model of consistency, Feeders' Day has never been cancelled, not by war and not by inclement weather. □



CURRENTS



General Faculties Council

GFC's next meeting is scheduled for **Monday, 29 May**, at 9 am in the University Hall Council Chamber.

1. Approval of the Agenda
2. Approval of the Minutes of 20 March 1989
- Question Period
- New Members of GFC 1989-90

Reports

5. Executive Committee Report
- 5-1 Executive Committee Minutes of 1 May 1989

- 5.2 Executive Committee Minutes of 15 May 1989
6. Report of the Board of Governors
7. Report of the Nominating Committee
- New Business*
8. Code of Student Behavior: Proposal from GFC Campus Law Review Committee (CLRC) Regarding Definition of Student Affairs and Effective Date of Suspension/Expulsion
9. Code of Student Behavior: Definition of Cheating
10. GFC Council on Student Services (COSS): Proposal to Change Name and Terms of Reference
11. Search Committee for Chancellor: Policy Concerning GFC Representatives
12. GFC Nominating Committee Replenishment
13. Other Business

Smoking cessation program

The Alberta Lung Association invites members of the University community to become involved in leading "In Control", a videotape smoking cessation program.

After an afternoon orientation workshop, you will be ready to meet with a dynamic group of individuals who have made the life-changing decision to quit smoking.

The Lung Association will support your efforts financially as well as organizationally by providing the class and all program materials.

If you have a desire to work with adults and discussion groups, call 482-6527.

'Aiming for the Top'

Sharon Wood, the first North American woman to climb Mt Everest, presents "Aiming for the Top", 2 June at 11 am. Location: Bernard Snell Hall, University of Alberta Hospitals. Tickets: \$10. Call Susan, 452-6427 after 5 pm. No tickets at the door.

Farewell reception for Robert Armit

Robert Armit, Director of Research Services, is leaving the University of Alberta after serving as director since April 1983. He will be making his residence in Ottawa. A reception in his honor will be hosted by the Vice-President (Research's) Office on Thursday, 15 June, from 3 to 5 pm at University House. All of his friends and colleagues are invited to attend.

Anyone wishing to contribute towards a gift should send a cheque, made payable to "University of Alberta", to: Joyce Tartar, Office of the Vice-President (Research), University Hall, before 9 June.

Baby - Continued from page ten breathe in time to the rocker. Excessive criers—who usually go from sleep to fullblown crying without an initial fussy period—responded best to fast rocking.

Researchers wonder whether rocking induces regular breathing—then the crying stops. Or does rocking stop the crying—then regular breathing starts?

"We're not sure which comes first," Dr Elliott says. But whichever the case, there is more and more evidence, she says, that "if you try and soothe crying in the first three months, you'll likely have an infant who cries less at the end of the first year. And there's absolutely no evidence that in the first three months of life you can spoil a baby."*□

*Reprinted from Research Report, published quarterly by the University's Office of Public Affairs.

Events - Continued from page ten
Animal Science

19 May, 3 pm Andrew Pharyzyn, "A Review of Factors Affecting Embryo Development and Embryo Survival in Swine." 1-13 Agriculture/Forestry Centre.

26 May, 3 pm Eduardo Beltranena, "Factors Affecting the Onset of Puberty." 1-13 Agriculture-Forestry Centre.

English

24 May, 10 am Suzette Henke, professor of English and Comparative Literature, State University of New York at Binghamton, "(En) Gendering Modernism." L-3 Humanities Centre.

25 May, 2:30 pm Dr Henke, "Uncoupling Ulysses: Joyce's New Womanly Man." 5-20 Humanities Centre.

Accounting

25 May, 2 pm Yu Cha, Economic Management Department, Xi'an Jiaotong University, Xi'an, People's Republic of China, "Characteristics of Accounting in China." Stollery Centre, Business Building. Sponsor: The Winspear Foundation Distinguished Chair in Accounting.

Techniques in Cell and Molecular Biology

31 May, noon Bill Langridge, "Gene Expression in Transgenic Plants." 6-28 Medical Sciences Building. Presented by Anatomy and Cell Biology.

Pharmacy and Pharmaceutical Sciences

1 June, 11 am Graham Durant, professor, Medicinal Chemistry, University of Toledo, Ohio, "Discovery and Development of Histamine H2-Receptor Antagonists and Cimetidine." 2031 Dentistry-Pharmacy Centre.
2 June, 10 am Dr Durant, "Recent Developments in Histamine Receptor Agonists and Antagonists." 2031 Dentistry-Pharmacy Centre. Both lectures funded by AHFMR.

Genetics

1 June, 4 pm Eric Kubli, associate professor, University of Zurich, "Manipulating the Sex Life of *Drosophila*" (Involvement of a Sex Peptide). G-216 Biological Sciences Building.

6 June, 4 pm Susan M Rosenberg, University of Utah Medical School, "Chi Recombination Hotspots." G-216 Biological Sciences Building.

Lipid and Lipoprotein Research Group and Cardiovascular Disease Research Group

12 June, 9 am Leszek Budohoski, Department of Applied Physiology, Medical Research Centre, Polish Academy of Sciences, Warsaw, "Factors Affecting Triacylglycerols Uptake in Muscle *In Vivo* and *In Vitro*." 207 Heritage Medical Research Centre.

The Arts

Exhibitions

FAB Gallery

Until 21 May "Dawn Burn, painter" — this exhibition is the final visual presentation in partial fulfillment of the requirements for the MVA degree.

Bruce Peel Special Collections

Until 14 June "thought prints" — an investigation of the form and content of language on the printed page. First collaborative exhibition by students in Visual Communications Design, Art and Design, and Special Collections. Hours: 8:30 am to 4:30 pm; Monday to Friday. 492-5998. B-7 Rutherford South.

Music

27 May, 8 pm Piano recital by Maria Thompson. Admission: \$10. Convocation Hall, Arts Building. 986-2105, 986-3339.

Edmonton Youth Orchestra

28 May, 3 pm Second Edmonton Youth Orchestra Concert featuring Olivia Lou, winner of the Northern Alberta Junior Concerto Competition. Admission: \$3 adults; \$2 students and seniors. Convocation Hall, Arts Building. 436-7932.

Studio Theatre

8 to 17 June "The Benefactors." 492-2495.

Award Opportunities

Sandra Garvie Memorial Fund

Value: Up to \$1,000. *Number:* At the discretion of the Board of Directors. *Frequency:* Annual. *Purpose:* To provide funding to any individual wishing to pursue a course of study or research relating to the library or information aspects of public legal education. *Conditions:*

1. Applicants must be Canadian citizens or landed immigrants.
 2. Awards will be based upon financial need and suitability of the proposed course of study or research.
 3. Awards made from the Sandra Garvie Memorial Fund do not exclude application for funds from other sources. Applicants may consider the Sandra Garvie Memorial Fund as a source of funds for a portion of a larger project for which the applicant has applied or received funding from other sources.
 4. Awards will not normally be applicable to capital expenditures.
 5. Awards for a course of study will be tenable at any postsecondary institution in Canada recognized by the Board as suitable for the pursuit of the proposed study.
 6. No awards will be granted if no suitable candidates apply.
 7. All decisions concerning the granting of awards will be at the total discretion of the Board of Directors.
- Donor:* From a trust fund created in honor of the late Sandra Garvie.

Apply: Applicants are requested to submit a research proposal, or proposed course of study, including a proposal budget, by 30 June 1989 to: Sandra Garvie Memorial Fund, c/o Ms Lois E Gander, Director, Legal Resource Centre, 10049 81 Avenue, Edmonton, Alberta T6E 1W7.

Positions

The University of Alberta is committed to the principle of equity in employment.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Head Librarian, Boreal Institute for Northern Studies

The Boreal Institute Library, with a current staff of 5.5 FTE and holdings of 200,000 items, provides a full range of services to researchers and the public. The Library has a strong collection of circumpolar material which is accessible nationally through its 40-50,000-item computer database (BOREAL).

Responsibilities include: collection development, database (BOREAL) development and special services (KWIC Index), policy development, staff supervision, representing the Institute at national and international meetings, liaison with other circumpolar libraries and institutes, knowledge of new technologies (including the possible development of online database searching), and relevant fundraising. The Head Librarian is tenurable and reports to the Director of the Institute.

Qualifications: MLS; knowledge of multidisciplinary circumpolar research; strong administrative skills and relevant fundraising ability. Capacity to conduct research highly desirable. Current salary range is \$36,678 to \$57,582 per year.

Send applications (including résumé and names of three referees) by 10 June 1989 to: Dr RL Busch, Associate Vice-President (Research), 3-3 University Hall, University of Alberta, Edmonton, Alberta T6G 2E1. Telephone: (403) 492-5335; FAX: (403) 492-1153.

Administrative Assistant, Non-Academic Staff Association

The Non-Academic Staff Association represents some 3,300 non-academic staff of the University. The Administrative Assistant reports to the Manager and performs the following functions:

- computer-related work (database management and networking);
- research, including surveys and background information for collective bargaining;
- accounting and payroll, for an annual budget of some \$400,000;
- handling enquiries and complaints from members regarding the collective agreement and special projects; and
- office organization, including streamlining of office procedures, filing and library systems.

The incumbent, with formal training in the appropriate fields, must have knowledge of computer software (Lotus 1-2-3), research methodology and financial accounting, plus a minimum of three years of related experience in a large organization.

The annual salary range is \$28,152 to

\$38,604, plus an attractive benefits package. The starting salary will be commensurate with qualifications and experience.

Please apply in confidence by 31 May 1989 to: Manager, Non-Academic Staff Association, 11033 89 Avenue, Edmonton, Alberta T6G 0Z7.

Director of Food Services

The University of Alberta's Food Services operate 19 individual food operations as well as a large catering service. We serve approximately 2.5 million customers a year, generate in excess of \$6 million in revenue and operate in a very highly competitive environment.

We are seeking a senior food services executive to manage our large, complex and developing operations. We require an individual who has the experience and abilities to assist us in developing a successful and above average food service for one of Canada's largest universities. Our current objectives include developing our catering services, opening new operations and improving our board programs, inventory control, staff training, improved control of cost of goods sold, promotions programs and pricing programs. Our overall goal is to improve the quality of product, service and value we offer to the University community while also improving the financial contribution of the Food Services Division.

Applicants must have a university degree in a related field and at least five years of senior food service management experience. Experience should include a combination of institutional as well as entrepreneurial management. Strong communication and leadership skills are essential.

Salary range: \$36,066 to \$54,114 per annum supplemented by a comprehensive benefits program.

Please submit a detailed résumé including three references by 24 May 1989 to: University of Alberta, Housing and Food Services, Personnel Office, Room 44, Lister Hall, Edmonton, Alberta T6G 2H6.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 12 May. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Positions available as of 12 May 1989.

The salary rates for the following positions reflect adjustments in accordance with the terms for the implementation of the Pay Equity Program, effective 1 April 1989 for those positions in the "green-circled" and "white-circled" categories.
Clerk Typist (Receptionist), International Centre, (\$1,564-\$2,087)
Clerk Steno, Grade 5, Office of the Dean of Arts, (\$1,564-\$2,087)
Clerk Steno, Grade 5, Rural Economy, (\$1,564-\$2,087)
Secretary, Grade 5, English, (\$1,682-\$2,087)
Departmental/Executive Secretary, Gr 6, Office of the Dean of Arts, (\$1,844-\$2,298)
Office Services Senior Clerk, Grade 7, University Coordinating Council, (\$2,008-\$2,516)

Timetabling Clerk, Grade 7, Office of the Registrar, (\$2,008-\$2,516)
Biosafety Technician, Grade 8, Occupational Health and Safety, (\$2,169-\$2,735)

Administrative Assistant, Grade 9, (Residence Life Coordinator), Housing and Food Services, (\$2,225-\$2,976)
Technician, Grade 10, Geology, (\$2,527-\$3,223)

The following positions retain salary rates in accordance with the current classification system and pay plan.
Clerk Typist II (Receptionist) (Trust), Medicine (Neurology), (\$1,276-\$1,584)
Secretary (Trust), Applied Sciences in Medicine, (\$1,584-\$2,023)

Departmental/Executive Secretary, Biochemistry, (\$1,785-\$2,297)

Technical/Administrative

The salary rates for the following positions reflect adjustments in accordance with the terms for the implementation of the Pay Equity Program, effective 1 April 1989 for those positions in the "green-circled" and "white-circled" categories.

Biosafety Technician, Grade 8, Occupational Health and Safety, (\$2,169-\$2,735)

Administrative Assistant, (Residence Life Coordinator), Grade 9, Housing and Food Services, (\$2,225-\$2,976)

Electronics Technician, Grade 9, Technical Services, (\$2,346-\$2,976)
Technician, Grade 10, Geology, (\$2,527-\$3,223)

The following positions retain salary rates in accordance with the current classification system and pay plan.
Programmer Analyst II, Office of the Registrar, (\$2,397-\$3,113)

For vacant Library positions, telephone 492-3790.

Advertisements

Accommodations available

Victoria properties - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call collect (604) 592-3666, Lois Dutton, Wessex Realty, Victoria, BC.

Rent - August, for one year, fully-furnished, four-bedroom, study, Aspen Gardens split-level. Near schools, sport facilities, shopping. Bus, bike path to University. Fireplace, sundeck. \$900. 492-2335 or 436-8808.

Rent - Available 1 August. Historic, four-bedroom house, near campus. Fireplace, panelled dining room, large living room with wooden columns, well-treed lot. \$975/month, (renewable lease). \$800 DD. 433-2904.

Sale - Lakefront, \$79,900. Gardener's Cove, Wabamun. 1,166 sq ft, four-bedroom, heated cottage. Boat house. Guest house. Property 120'x250'. Great package. Joy E Murray, NRS Realty Centre, 438-6111.

Sale - Riverbend. Near river. Executive, 3,000 sq ft home. Huge kitchen with solarium, four bedrooms with main floor den. South backyard. Ann Dawrant, Spencer Realty, 436-5250.
Sale - Blue Quill bungalow. Three bedrooms, family room, developed basement. Mature garden, double garage. Phone 437-7509 for appointment.

Rent - Large, four-bedroom, executive

house. Fully furnished, 3 1/2 baths, many extras, close to University. July 1989-June 1990 (negotiable). Dr Siddiqui, 434-6127 (evenings, weekends).

Rent - Groat Estates. Renovated, charming home. Three bathrooms, four bedrooms, 2,500', finished basement. Furniture negotiable. \$1,350/month. Western Relocation, 438-1044.

Sale - Lansdowne. Charming, open beam bungalow backing onto University Farm. Fireplace, hardwood floor in living room, three-piece ensuite off master bedroom, oak kitchen cupboards. Ann Dawrant, Spencer Realty, 436-5250.

Share - House, 74 Ave 106 St. Preferably female, non-smoker. Furnished, washer, dryer, two cats. Rent \$275 plus shared utilities. Available immediately. Call Ruth at 433-2516 or 422-7333.

Rent - Large house and/or one-person flat in London N16. Very reasonable. 15 July to 31 August. 011-44-1-806-6073.

Rent - Bright, modern, semi-furnished, basement suite. Near University. \$290/month. Available June. 437-7922.

Visiting Toronto? Bed and breakfast in our restored home, minutes to downtown. Swim and steam included. Rates from \$40. Ashleigh Heritage Home. (416) 535-4000.

Rent - Unpack your suitcases and enjoy fully-furnished, Malmo home. Direct bus University. Two bedrooms, two dens, double garage. Non-smoking couple, no pets. Monthly rental \$1,050. For one-two years. 435-7103.

Sale - Parkallen, immaculate bungalow. Large kitchen, dinette, fireplace, finished basement. Double garage, south backyard, fenced, nicely landscaped. For more information, call Jean Mill, Century 21 Bennett Realty, 436-1469, 432-1378.

Sale - Garneau. Two-storey, three bedrooms upstairs, one in basement. South backyard, hardwood. 44' lot. \$162,000. 433-6294.

Sale - Grandview, by owner, exceptional bungalow, 1,860' plus fully developed basement, open post and beam construction, located on quiet crescent, 12615 65 Ave. 434-0689 or 492-0848. \$198,500.

Sale - House, McKernan, by owner. Minutes to University. One plus two bedrooms, 1 1/2 baths. Large yard, tall trees, single detached garage, many upgrades. \$98,000. 435-0279.

Rent - Greenfield. Three-bedroom bungalow, fully furnished. July-August. \$700/month. Phone 435-7950.

Rent - Suites, quiet, central, near University. One/two-bedroom. Seeking responsible caretaker. Miriam, 430-7770.

Rent - Puerto Vallarta. One-bedroom, self-contained condominium, sleeps 2-4 persons. Ocean view, pool, television, long- short-term accommodation, reasonable. 465-2714.

Sale - West end, excellent University access. Contemporary three bedroom, two storey. Neutral decor, bright interior. \$93,500. 487-7264.

Sale - Lendrum, 1,350' bungalow, five bedrooms, finished basement, three bathrooms. Call owner at 435-8817 for appointment.

Rent - Young professor would like to share beautiful, two-bedroom apartment on Saskatchewan Drive. Mature student/professional preferred.

June-August. Facilities: pool, exercise room, laundry. \$295. 492-2828.
Sale - Glenora. Four bedrooms, ravine in backyard. Hardwood floors, fireplace. Chuck Joly, Canada Trust Realty, 483-0601.

Rent - Laurier Heights. Two-bedroom, basement suite. Newly carpeted, quiet. Nonsmokers. \$360 including utilities, parking/yard. Deposit \$125. Available now. 483-1402.

Sale - Three-bedroom bungalow, attached single garage, meadowlark, twenty minutes over freeway. Cathedral ceiling, fireplace, carpeted throughout, sunny, downstairs fully finished, second bath, large lot. Recently appraised at \$94,000. 484-4962.

Sale - Jasper Place. Unique, two-storey, three-bedroom home. Cedar panelling in dining room and hallway.

Fireplace, hardwood floor in living room. Basement developed. Joan Lynch, Spencer Real Estate, 436-5250.

Sale - Lakefront retreat, 66 or 140 acres. Under \$80,000. Denise Rout, 435-6355. Spencer Realty.

Sale - Executive condominium, security controlled. 2,100 sq ft. Tastefully decorated. Riverbend. Denise Rout, 435-6355. Spencer Realty.

Sale - Lakefront, Wabamun. Four-bedroom, furnished cottage. Private beach, 100' lakefront. For details, call Chris Tenove, 433-5664, 436-5250. Spencer Realty.

Sale - Windermere area. Only two lots left. Over one acre. Chris Tenove, 436-5250, 433-5664. Spencer Realty.

Sale - 7.53 acres. Only \$36,000, west of city. Call Chris Tenove, 433-5664, 436-5250. Spencer Realty.

Sale - Lake Wabamun. Three-bedroom cottage or home. Well-built, fireplace, sauna. Quiet location. Call Chris Tenove, 436-5250, 433-5664. Spencer Realty.

Sale - Belgravia. New listing. 2,500', two storey. Immaculate, attractive. Very good location. Close to river valley.

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Rent - Three-bedroom house, North Windsor Park. 1 June, one block to University. 439-4478.

Accommodations wanted

Just sold our home in Grandview. Must stay in neighborhood. Will buy or rent. 436-4416.



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483-7170 (West End)
460-9222 (St. Albert)
434-8600 (South)

Rent - Architect's family requires four-bedroom house, near University, August 1989 for one-two years. 439-1872 after 6 pm.

Grad student seeking inexpensive country living or will housesit. 1 June-30 September. 469-8915.

Married couple, research associates, seek accommodation near University for 1989-90 academic year. 492-5734, 433-9913.

Grad student available to apartment/housesit. September-June. References available. Contact Margaret Nethercut, St. Stephen's Theological College, 439-7311 or (306) 783-8490.

Two mature Christians, females, wishing to housesit starting September. Terry, 468-1088.

Need a responsible person to look after your home while away on summer break/study leave? Experienced in University area. References. 433-3533.

Goods for sale

Cash paid for appliances. 432-0272.

Sale - Two pairs of Look, competition cycle pedals, barely used, \$90/pair. Fred after 6 pm, 482-3177.

Sklar Peppler nine-piece dining room suite, excellent condition, \$2,800. TV, wood cabinet, \$250. Living room furniture, colonial-style lamps, etc. 484-4962.

Two-channel Digital Signal Processor with signal acquisition unit, x-y display screen, and transport cases. Performs FFT's, auto - and cross - correlations, convolutions, signal averaging, etc. Excellent condition. Offers? 492-5668.

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Families required to host Japanese students, 22 July-12 August. Contact Christina Vernon, 435-6793.

For your real estate needs in Victoria, BC, contact Stephanie Ustina, realtor. Wessex Realty, (604) 592-3666; res (604) 383-0983.

Stop smoking program. Use your mind to stop smoking. Dr Daniela Masek, counseling, hypnotherapy. #308 8540 109 St, 432-7233, 437-7130 evenings.

Hazeldean Early Education Program is currently accepting applications for three- and four-year-old children to integrate with preschool children with developmental delays. For further information, call Maeburn Troy, 439-0868.

Newly opened UNA Massage Clinic. Close to the University at LifeRhythms, 10762 82 Avenue, 2nd floor. Relaxation massage. \$35/hour session or \$20/half hour session. 439-3020.



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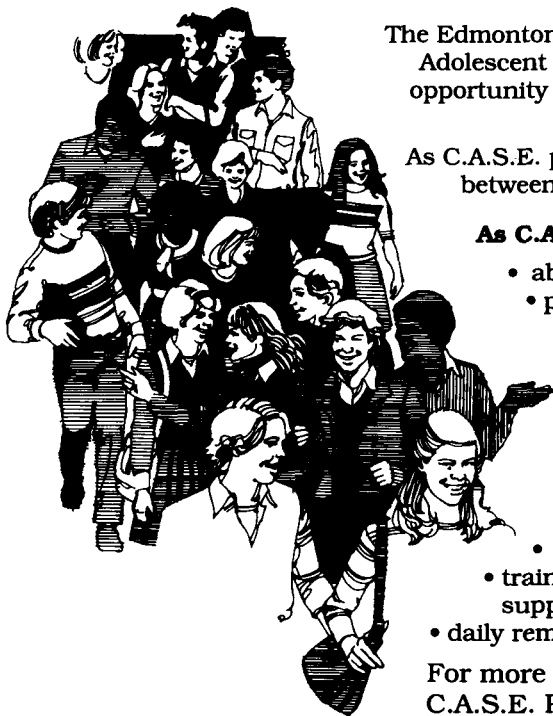
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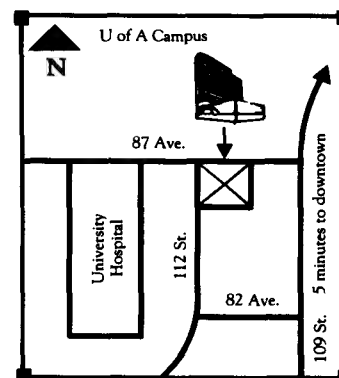
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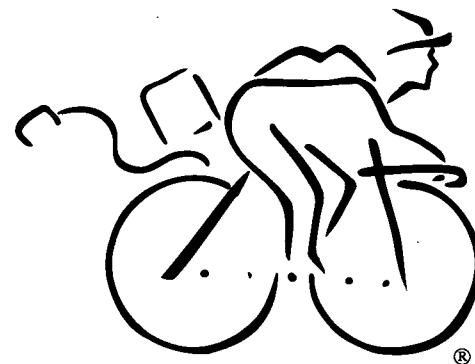
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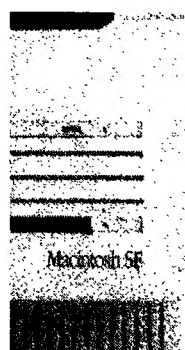
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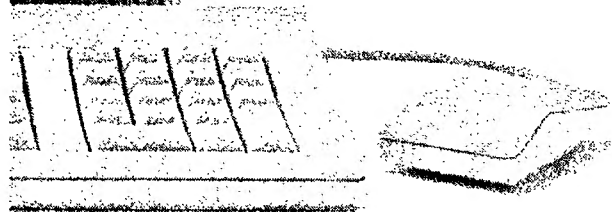


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